



Hands-on tutorials

AWS Security Platform as a Service (PaaS) - Multi-Cloud Security Operations Console



AWS Security Platform as a Service (PaaS) - Multi-Cloud Security Operations Console: Hands-on tutorials

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AWS Security Platform as a Service - Multi-cloud security operations console

AWS experience	Intermediate
Time to complete	2 hours
Cost to complete	See services for specific pricing details.
Services used	Amazon OpenSearch Service , Amazon Security Lake , Amazon GuardDuty , Amazon Inspector , AWS Systems Manager , and AWS Security Hub CSPM
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Overview

This tutorial shows you how to implement a complete AWS Security Platform as a Service (PaaS) that provides a unified security operations console. You'll learn to integrate Cloud Security Posture Management (CSPM), Security Information and Event Management (SIEM), and Cloud Workload Protection Platform (CWPP) capabilities through a single interface with multi-cloud support.

This tutorial focuses on [Microsoft Azure](#) and [Google Cloud Platform](#) integration, but you can apply the same approach to any cloud provider or on-premises.

What you will accomplish

- Monitor security across multiple cloud providers from a single console
- Detect threats and vulnerabilities in real time
- Maintain compliance posture across your multi-cloud infrastructure
- Respond to security incidents efficiently with centralized analytics

Prerequisites

For this tutorial, you'll need:

- An AWS account with administrator-level access: If you don't already have one, follow the [Setting Up Your AWS Environment](#) getting started guide for a quick overview
- Active subscriptions to Microsoft Azure and Google Cloud Platform
- [AWS CLI](#) installed
 - See [Installing or updating the latest version of the AWS CLI](#)
- Node.js: Version 18.x or later
 - Download from [nodejs.org](#)
- AWS CDK: Installed globally
 - Installation command: `npm install -g aws-cdk`
- Security Lake: Preconfigured Amazon Security Lake instance with an Amazon S3 bucket
 - See [Getting started with Amazon Security Lake](#)
- AWS Lake Formation: Admin role configured for Security Lake operations
- AWS Identity and Access Management (IAM) permissions: Sufficient permissions to create Lambda functions, SQS queues, KMS keys, and IAM roles

Azure integration requirements:

- Azure Event Hub namespace and connection strings
- Microsoft Defender for Cloud continuous export configured
- Service principal with appropriate permissions

Google Cloud integration requirements:

- Google Cloud Pub/Sub subscription configured
- Service account credentials with Security Command Center permissions
- Organization-level or project-level access